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Coccidia infections in Danish farmed mink

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Coccidia in mink

What do we know

Danish farmed mink are frequently infected with Coccidia.

The proportion of positive mink varies significantly in relation to the seasons.

Most positive mink are seen in July and fewest in the winter months, according to a previous Danish study.

Only a few studies of coccidia in mink exist.

Knowledge of factors affecting the infection is scarce.

Purpose of the study

We studied

Age, geographical and season-related factors affecting coccidia prevalence.

Material and method

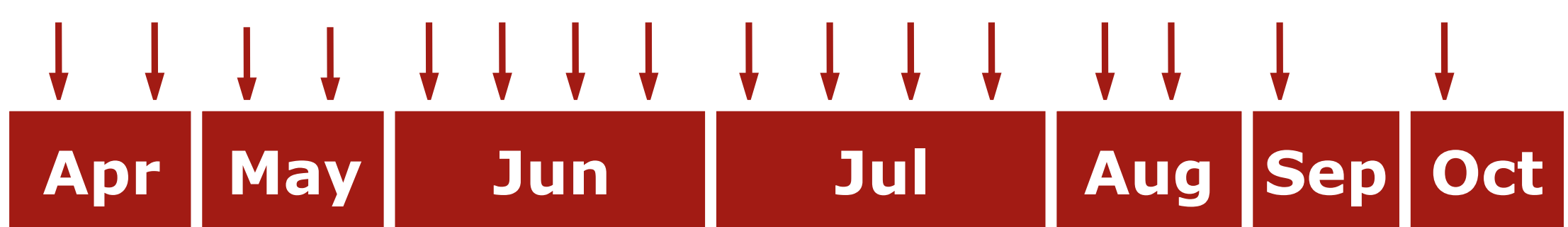
30 farms included:

- 10 from Zealand
- 10 from North Jutland
- 10 from South Jutland

Fecal samples from 5 litters and pool of feces from 2 of her cups.

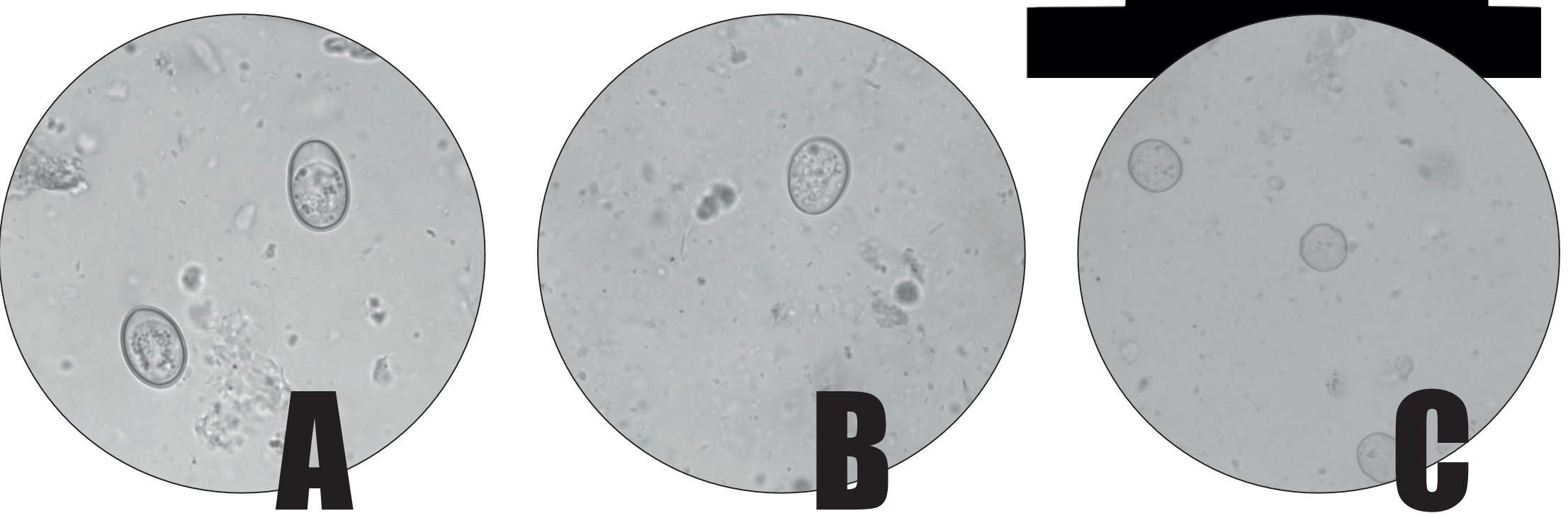
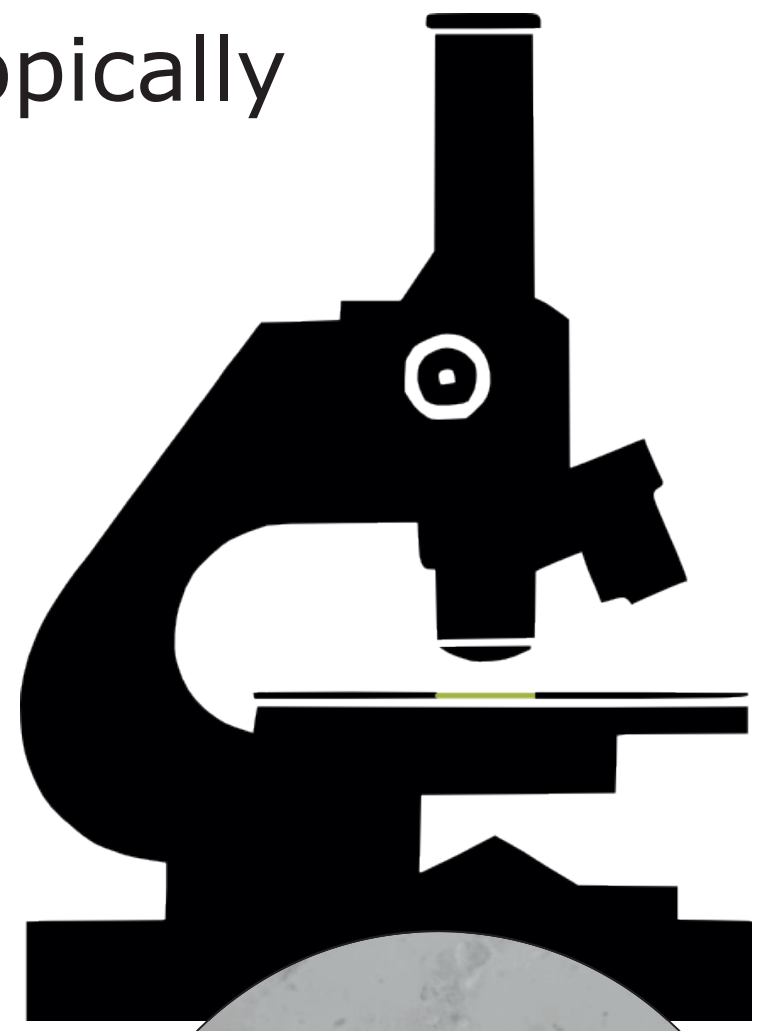


16 sample days:



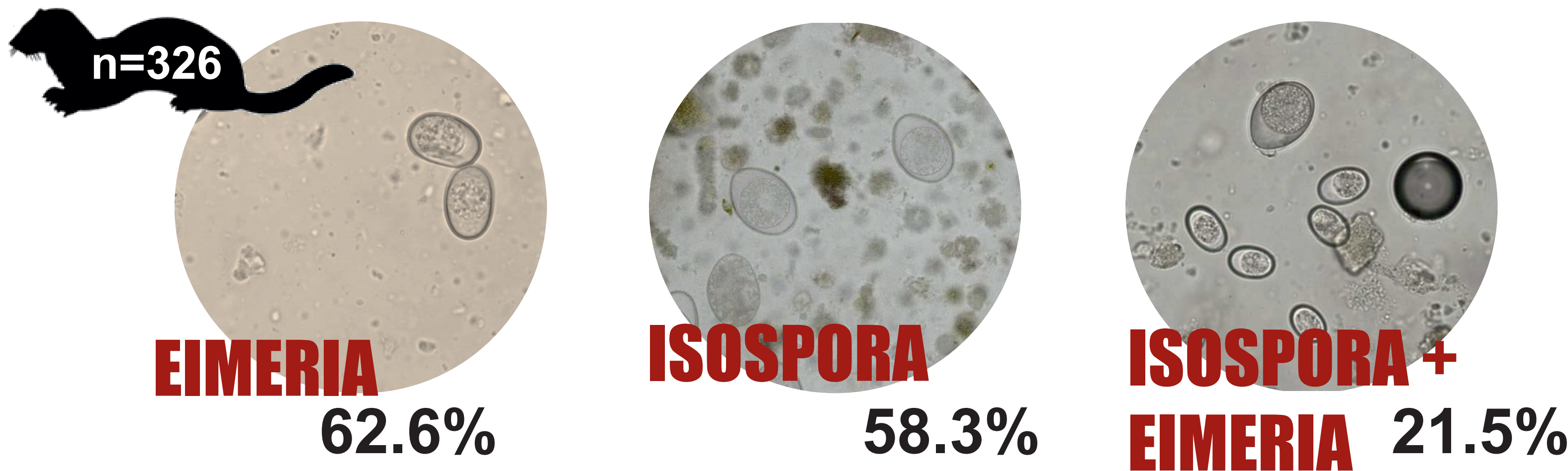
Oocyst were quantified microscopically by modified McMaster

Oocyst were characterized by size and thickness of the wall as either type A, B or C.

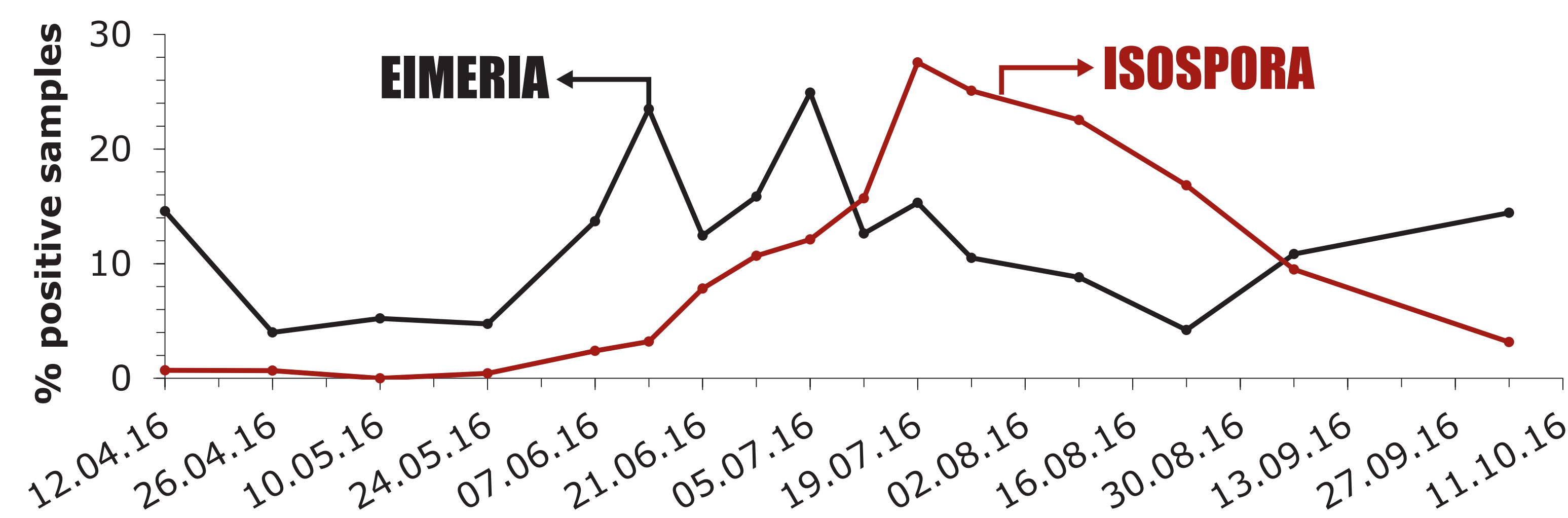


Results and conclusions

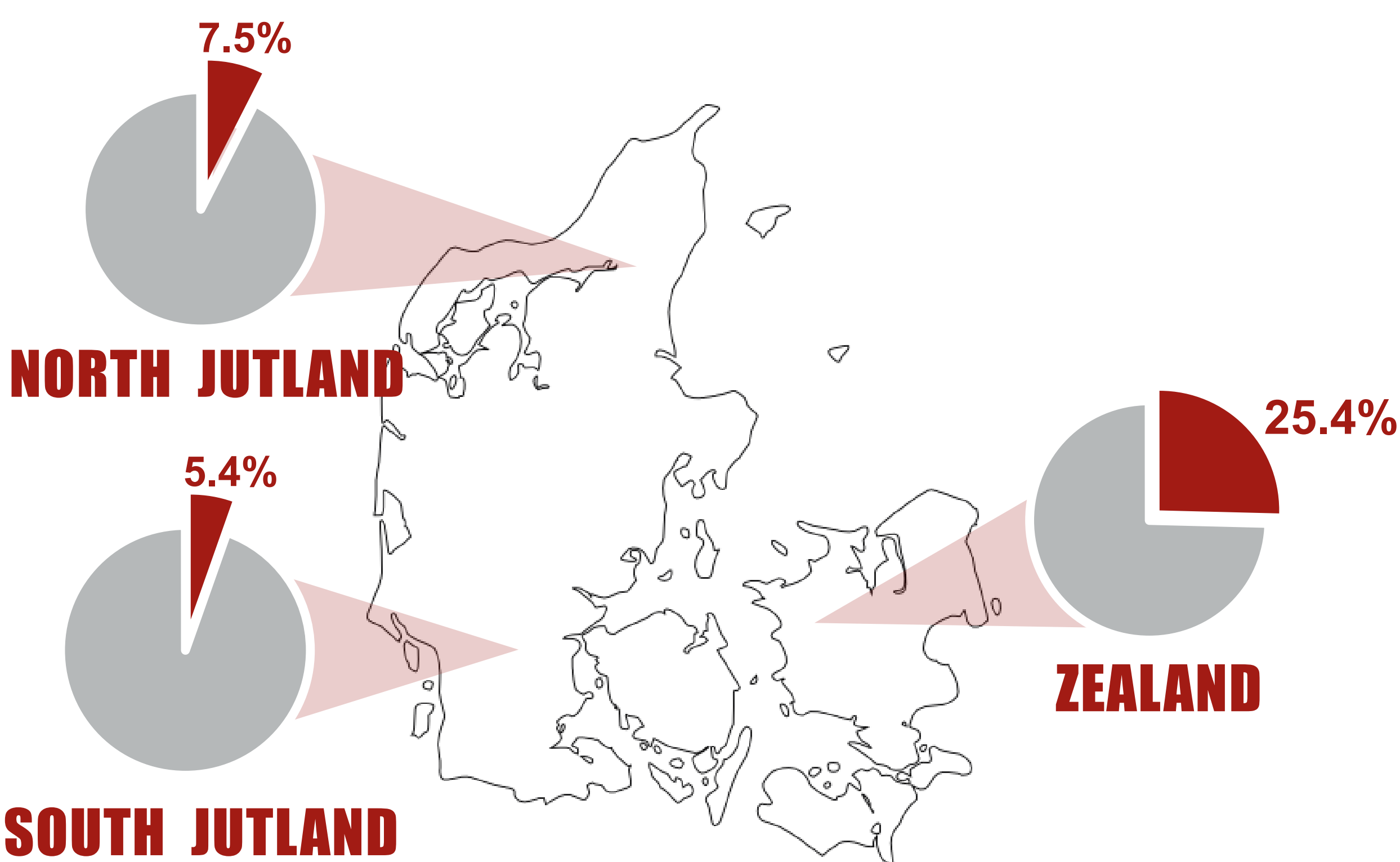
The **percentage of animals** positive for either *Eimeria* or *Isospora* at least once during the study was almost equal.



The *Eimeria* prevalence peaked in June – July, while most animals were *Isospora* positive in July – August.



The **percentage of *Eimeria* positive samples** was geographically related. For *Isospora*, the prevalence was unrelated to location of the farm.



The prevalence of ***Eimeria* oocyst type** were related to the location of the farms. Oocyst type B was the most prevalent type in mink from Zealand, while type C was most prevalent in mink from Jutland.

